

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

Kar-Wing Edward LOR et al.

Group Art Unit: Unassigned

Application No.: Unassigned

Examiner: Unassigned

Filed: August 4, 2003

Attorney Dkt. No.: 58268.00238

For: ENTERPRISE WIRELESS LOCAL AREA NETWORK SWITCHING SYSTEM.

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

August 4, 2003

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the information item(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each item(s) is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the item(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date or the date of filing a CPA, OR (b) before the mailing date of a first Office Action on the merits in the present application, or (c) accompanies a Request for Continued Examination. No certification or fee is required.
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than

three months prior to the filing of this Information Disclosure Statement.  
37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. A check in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please charge any fee deficiency or credit any overpayment to Counsel's Deposit Account No. 50-2222 as needed to ensure consideration of the disclosed information.

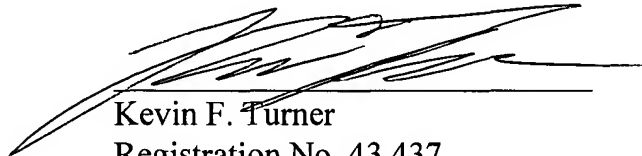
☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Attached is our check in the amount of \$130.00 in payment of the petition fee under 37 CFR §1.17(i)(1). Please charge any fee deficiency or credit any overpayment to Counsel's Deposit Account No. 50-2222 as needed to ensure consideration of the disclosed information.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in any communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

In the event that there are any fees due with respect to the filing of this paper, please charge Counsel's Deposit Account No. 50-2222.

Respectfully submitted,



Kevin F. Turner  
Registration No. 43,437

**Customer Number 32294**  
SQUIRE, SANDERS & DEMPSEY LLP  
14<sup>TH</sup> Floor  
8000 Towers Crescent Drive  
Tysons Corner, Virginia 22182-2700  
Telephone: 703-720-7800  
Fax: 703-720-7802

KFT:lls

Enclosures: PTO-1449 Form; 36 References

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 58268.00238	SERIAL NO. Unassigned
LIST OF REFERENCES CITED BY APPLICANT  (Use several sheets if necessary)		APPLICANT Kar-Wing Edward LOR et al.	
		FILING DATE August 4, 2003	GROUP Unassigned

**OTHER REFERENCES** (Including Author, Title, Date, Pertinent Pages, Etc.)

	AA	"IEEE 802.11, A Technical Overview," Pablo Brenner, BreezeNet website, July 8, 1997, <a href="http://www.sss-mag.com/pdf/80211p.pdf">www.sss-mag.com/pdf/80211p.pdf</a>
	AB	Donny Jackson, "Telephony, Ultrawideband May Thwart 802.11, Bluetooth Efforts, PRIMEDIA Business Magazines & Media Inc., February 11, 2002.
	AC	Daniel L. Lough, et al., "A Short Tutorial on Wireless LANs and IEEE 802.11," The IEEE Computer Society's Student Newsletter, Virginia Polytechnic Institute and State University, Summer 1997, Volume 5, No. 2.
	AD	Dr. Robert J. Fontana, "A Brief History of UWB Communications," Multispectral.com, Multispectral Solutions, Inc., <a href="http://www.multispectral.com/history.html">www.multispectral.com/history.html</a> , August 20, 2002
	AE	Gerald F. Ross, "Early Motivations and History of Ultra Wideband Technology," Anro Engineering, Inc., Multispectral.com, Multispectral Solutions, Inc., <a href="http://www.multispectral.com/history.html">www.multispectral.com/history.html</a> , August 20, 2002.
	AF	Dr. Terence W. Barrett, "History of UltraWideband (UWB) Radar & Communications: Pioneers and Innovators," Proceedings and Progress in Electromagnetics Symposium 2000 (PIERS2000), Cambridge, MA, July 2000.
	AG	Dr. Henning F. Harmuth, "An Early History of Nonsinusoidal Electromagnetic Technologies," Multispectral.com, Multispectral Solutions, Inc., <a href="http://www.multispectral.com/history.html">www.multispectral.com/history.html</a> , August 20, 2002.
	AH	Rebecca Taylor, "Hello, 802.11b AND Bluetooth: Let's Not Be Stupid!", ImportTech.com, <a href="http://www.ImportTech.com/802.11-bluetooth.htm">www.ImportTech.com/802.11-bluetooth.htm</a> , August 21, 2002.
	AI	Matthew Peretz, "802.11, Bluetooth Will Co-Exist: Study," 802.11-Planet.com, INT Media Group, Inc., October 30, 2001.
	AJ	"Bluetooth and 802.11: A Tale of Two Technologies," 10Meters.com, <a href="http://www.10meters.com/blue_802.html">www.10meters.com/blue_802.html</a> , December 2, 2000.
	AK	Keith Shaw, "Bluetooth and Wi-Fi: Friends or foes?", Network World Mobile Newsletter, Network World, Inc., June 18, 2001.
	AL	Joel Conover, "Anatomy of IEEE 802.11b Wireless," NetworkComputing.com, August 7, 2000.
	AM	Bob Brewin, "Intel, IBM Push for Public Wireless LAN," Computerworld.com, Computerworld Inc., July 22, 2002.
	AN	Ernest Khoo, "A CNET tutorial: What is GPRS?", CNETAsia, CNET Networks, Inc., February 7, 2002.
	AO	Les Freed, "Et Tu, Bluetooth?", ExtremeTech.com, Ziff Davis Media Inc., June 25, 2001.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 58268.00238	SERIAL NO. Unassigned
LIST OF REFERENCES CITED BY APPLICANT  (Use several sheets if necessary)		APPLICANT Kar-Wing Edward LOR et al.	
		FILING DATE August 4, 2003	GROUP Unassigned

	AP	Bluetooth & 802.11b - Part 1, <a href="http://www.wilcoxonwireless.com/whitepapers/bluetoothvs802.doc">www.wilcoxonwireless.com/whitepapers/bluetoothvs802.doc</a> , January 2002.
	AQ	Bob Brewin, "Report: IBM, Intel, Cell Companies Eye National Wi-Fi Net," Computerworld.com, Computerworld Inc., July 16, 2002.
	AR	Bob Brewin, "Microsoft Plans Foray Into Home WLAN Device Market," Computerworld.com, Computerworld Inc., July 22, 2002.
	AS	Bob Brewin, "Vendors Field New Wireless LAN Security Products," Computerworld.com, Computerworld Inc., July 22, 2002.
	AT	Jeff Tyson, "How Wireless Networking Works," Howstuffworks.com, Howstuffworks, Inc., <a href="http://www.howstuffworks.com/wireless-network.htm/printable">www.howstuffworks.com/wireless-network.htm/printable</a> , August 15, 2002.
	AU	Curt Franklin, "How Bluetooth Works," Howstuffworks.com, Howstuffworks, Inc., <a href="http://www.howstuffworks.com/bluetooth.htm/printable">www.howstuffworks.com/bluetooth.htm/printable</a> , August 15, 2002.
	AV	802.11b Networking News, News for 8/19/2002 through 8/11/2002, <a href="http://80211b.weblogger.com/">80211b.weblogger.com/</a> , August 11-19, 2002.
	AX	"Wireless Ethernet Networking with 802.11b, An Overview," HomeNetHelp.com, Anomaly, Inc., <a href="http://www.homenethelp.com/80211b/index.asp">www.homenethelp.com/80211b/index.asp</a> , August 20, 2002.
	AY	"Simple 802.11b Wireless Ethernet Network with an Access Point," HomeNetHelp.com, Anomaly, Inc., <a href="http://www.homenethelp.com/web/diagram/access-point.asp">www.homenethelp.com/web/diagram/access-point.asp</a> , August 20, 2002.
	AZ	"Simple 802.11b Wireless Ethernet Network without an Access Point," HomeNetHelp.com, Anomaly, Inc., <a href="http://www.homenethelp.com/web/diagram/ad-hoc.asp">www.homenethelp.com/web/diagram/ad-hoc.asp</a> , August 20, 2002.
	BA	"Cable/DSL Router with Wired and Wireless Ethernet Built In," HomeNetHelp.com, Anomaly, Inc., <a href="http://www.homenethelp.com/web/diagram/share-router-wireless.asp">www.homenethelp.com/web/diagram/share-router-wireless.asp</a> , August 20, 2002.
	BB	"Bridging a Wireless 802.11b Network with a Wired Ethernet Network" HomeNetHelp.com, Anomaly, Inc., <a href="http://www.homenethelp.com/web/diagram/wireless-bridged.asp">www.homenethelp.com/web/diagram/wireless-bridged.asp</a> , August 20, 2002.
	BC	"Wireless Access Point (802.11b) of the Router Variety," HomeNetHelp.com, Anomaly, Inc., <a href="http://www.homenethelp.com/web/diagram/share-wireless-ap.asp">www.homenethelp.com/web/diagram/share-wireless-ap.asp</a> , August 20, 2002.
	BD	Robert Poe, "Super-Max-Extra-Ultra-Wideband!", Business2.com, October 10, 2000.
	BE	David G. Leeper, "Wireless Data Blaster," ScientificAmerican.com, Scientific American, Inc., May 4, 2002.
	BF	Steven J. Vaughan-Nichols, "Ultrawideband Wants to Rule Wireless Networking," TechUpdate.ZDNet.com, October 30, 2001.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 58268.00238	SERIAL NO. Unassigned
LIST OF REFERENCES CITED BY APPLICANT  (Use several sheets if necessary)		APPLICANT Kar-Wing Edward LOR et al.	
		FILING DATE August 4, 2003	GROUP Unassigned

	BG	Jim Zyren and Al Petrick, "Brief Tutorial on IEEE 802.11 Wireless LANs," AN9829, Intersil Corporation, February 1999.
	BH	"Overview of UWB?", PulseLink.net, Pulse~LINK, Inc., <a href="http://www.pulselink.net/ov_history.html">www.pulselink.net/ov_history.html</a> , September 4, 2002.
	BI	Robert X. Cringely, "The 100 Mile-Per-Gallon Carburetor--How Ultra Wide Band May (or May Not) Change the World," Interesting-People.org, January 26, 2002.
	BJ	William A. Kissick, Editor, "The Temporal and Spectral Characteristics of Ultrawideband Signals," NTIA Report 01-383, January 2001, <a href="http://www.its.bldrdoc.gov/pub/ntia-rpt/01-383/">www.its.bldrdoc.gov/pub/ntia-rpt/01-383/</a> .
	BK	"Ultra Wide Band," <a href="http://www.ida.gov.sg/Website/IDAContent.nsf/dd1521f1e79ecf3bc825682f0045a349/1856626048baf403c82569880267e26%3FOpenDocument+%22Full+duplex+UWB+handheldtransceiver%22&amp;hl=en&amp;ie=UTF-8">www.ida.gov.sg/Website/IDAContent.nsf/dd1521f1e79ecf3bc825682f0045a349/1856626048baf403c82569880267e26%3FOpenDocument+%22Full+duplex+UWB+handheldtransceiver%22&amp;hl=en&amp;ie=UTF-8</a> , August 20, 2002
EXAMINER		DATE CONSIDERED
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		